Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	12065102	@ad<"20011214"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:42
·L2	16	virtual adj storage adj map	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:43
L3	11	1 and 2	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:47
L4	5008	virtual near4 map\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:48
L5	4997	4 not 3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:48
L6	3452	1 and 5	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:49
L7	9782	snapshot -	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:49
L8	162	6 and 7	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:49
L9	76608	backup	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:49
L10	55	8 and 9	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:49
L11	1989664	storage or disk or disc	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR .	OFF	2005/04/17 15:49
L12	54	10 and 11	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:50
L13	. 55	1 and 10	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:50

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L14	380	map same snapshot	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:50
L15	8	13 and 14	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:50
L16	598	map\$3 same snapshot	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:50
L17	18	13 and 16	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:53
L18	40677	bit same map\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 15:53
L19	10	17 and 18	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:03
L20	3	US-5241670-\$.DID. OR US-6061770-\$.DID. OR US-6131148-\$.DID.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:03
L21	3	1 and 20	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:03
L22	0	2 and 21	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:04
L23	1	16 and 21	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:04
L24	582	primary with virtual with storage	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:05
L25	562	secondary with virtual with storage	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:05
L26	261	24 and 25	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:05
L27	23	7 and 26	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:06

L28	1	2 and 27	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:05
L29	15	1 and 27	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:06
L30	4	18 and 29	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:08
L31	188896	allocat\$3 or reallocat\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:09
L32	257	4 with 31	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:09
L33	0	29 and 32	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:09
L34	1032	711/162.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:25
L35	371	711/161.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:25
L36	733	711/203.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:25
L37	133	711/6.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:25
L38	1090	707/204.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:26
L39	340	718/1.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:26
L40	1181	718/100.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:26
L41	4315	34 or 35 or 36 or 37 or 38 or 39 or 40	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:27

L42	4	2 and 41	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:27
L43	2	1 and 42	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:27
L44	2	reallocat\$3 near4 virtual near4 map\$3 ,	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:28
L45	3	24 same 25 same reallocat\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/04/17 16:29



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Map usage in virtual environments: orientation issues

Darken, R.P.; Cevik, H.;

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Virtual Reality, 1999. Proceedings., IEEE 13-17 March 1999 Page(s):133 - 140

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2. Application and comparison of metaheuristic techniques to generation expansion planning problem

Kannan, S.; Slochanal, S.M.R.; Padhy, N.P.;

Power Systems, IEEE Transactions on

Volume 20, Issue 1, Feb. 2005 Page(s):466 - 475

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Environmental exploration: an autonomous sensory systems approach

Wide, P.; Saffiotti, A.; Bothe, H.-H.;

Instrumentation & Measurement Magazine, IEEE

Volume 2, Issue 3, Sep 1999 Page(s):28 - 32

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4. On-line construction of iconic maps

Bourque, E.; Dudek, G.;

Robotics and Automation, 2000. Proceedings. ICRA '00. IEEE International Conference on

Volume 3, 24-28 April 2000 Page(s):2310 - 2315 vol.3

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Gobin, F.;

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7. VLSI architecture for very high resolution scalable video coding using the virtual zerotree

Li-Minn Ang; Hon Nin Cheung; Eshraghian, K.;

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9.	Hardware Accelerated Data Analysis Franzmeier, M.; Pohl, C.; Pormann, M.; Ruckert, U.; Parallel Computing in Electrical Engineering, 2004. PARLEC 2004. International Conference on 07-10 Sept. 2004 Page(s):309 - 314
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10.	Tactile exploration of virtual maps Nissen, J.C.D.; Developments in Tactile Displays (Digest No. 1997/012), IEE Colloquium on 21 Jan. 1997 Page(s):11/1 - 11/3
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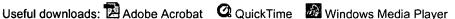
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4 Human Pacman: a mobile, wide-area entertainment system based on physical, social, and ubiquitous computing

Adrian David Cheok, Kok Hwee Goh, Wei Liu, Farzam Farbiz, Siew Wan Fong, Sze Lee Teo, Yu Li, Xubo Yana

May 2004 Personal and Ubiquitous Computing, Volume 8 Issue 2

Full text available: pdf(2.10 MB)

Additional Information: full citation, abstract, index terms

Human Pacman is a novel interactive entertainment system that ventures to embed the natural physical world seamlessly with a fantasy virtual playground by capitalizing on mobile computing, wireless LAN, ubiquitous computing, and motion-tracking technologies. Our human Pacman research is a physical role-playing augmented-reality computer fantasy together with real human-social and mobile gaming. It emphasizes collaboration and competition between players in a wide outdoor physical area whic ...

Keywords: Collaboration, Physical interaction, Social computing, Tangible interaction, Ubiquitous computing, Wearable computer

5	Custom Data Layout for Memory Parallelism					
	Byoungro So, Mary W. Hall, Heidi E. Ziegler					
	March 2004 Proceedings of the international symposium on Code generation and optimization: feedback-directed and runtime optimization					
	Full text available: pdf(246.29 KB)  Additional Information: full citation, abstract					
	In this paper, we describe a generalized approach toderiving a custom data layout in multiple memory banksfor array-based computations, to facilitate high-bandwidthparallel memory accesses in modern architectures wheremultiple memory banks can simultaneously feed one ormore functional units. We do not use a fixed data layout, but rather select application-specific layouts according toaccess patterns in the code. A unique feature of this approachis its flexibility in the presence of code reorderin					
6	Paper session #1: Experimental evaluation of vision and speech based multimodal interfaces Emilio Schapira, Rajeev Sharma November 2001 Proceedings of the 2001 workshop on Perceptive user interfaces					
	Full text available: pdf(581.28 KB) Additional Information: full citation, abstract, references					
	Progress in computer vision and speech recognition technologies has recently enabled multimodal interfaces that use speech and gestures. These technologies o er promising alternatives to existing interfaces because they emulate the natural way in which humans communicate. However, no systematic work has been reported that formally evaluates the new speech/gesture interfaces. This paper is concerned with formal experimental evaluation of new human-computer interactions enabled by speech and hand					
7	A structured appointment of a hierarchical approximation avetom					
	Ashok R. Saxena, Thomas H. Bredt					
	April 1975 ACM SIGPLAN Notices, Proceedings of the international conference on Reliable software, Volume 10 Issue 6					
	Full text available: pdf(730.69 KB)  Additional Information: (ull citation, abstract, references, citings, index terms					
	This paper applies the concepts of hierarchical levels of abstraction and structured programming to the design of a large program system. An operating system for a multi-processor installation is specified that supports a large number of concurrently active processes and provides a virtual store for them. The specification is in an extended version of PASCAL, a high-level language.					
	<b>Keywords</b> : Hierarchies, Levels of abstraction, Operating systems, PASCAL, Structured programming					
8	Building Distributed Context-Aware Applications  Tore Urnes, Arne S. Hatlen, Pål S. Malm, Øystein Myhre  January 2001 Personal and Ubiquitous Computing, Volume 5 Issue 1					
	Full text available: pdf(72.39 KB) Additional Information: full citation, abstract, index terms					
	Context-aware applications gather information from sensors about their users and operating environment. Sensor handling is a complicated issue that makes it hard and time-consuming to develop context-aware applications. This paper shows how dynamic discovery protocols can be employed to deal with the physical distribution of sensors and the need to share sensors between many applications. We report on our experiences from building a position-aware application using the dynamic discovery protocol					
9	Automatic modeling of a 3D city map from real-world video					
	Hiroshi Kawasaki, Tomoyuki Yatabe, Katsushi Ikeuchi, Masao Sakauchi October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 1)					
	Full text available: pdf(1.67 MB)  Additional Information: full citation, abstract, references, citings, index terms					
	Mixed reality (MR) systems which integrate the virtual world and the real world have become a major topic in the research area of multimedia. As a practical application of these MR systems, we propose an efficient method for making a 3D map from real-world video data. The proposed method is an automatic organization method focusing on video objects to describe video data in an efficient way, i.e., by collating the real-world video data with map information using DP matching. To demonstrate					
10	Virtual and augmented reality: FingARtips: gesture based direct manipulation in Augmented					
	Reality					
	Volkert Buchmann, Stephen Violich, Mark Billinghurst, Andy Cockburn  June 2004 Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and Southe East Asia  Full text available: pdf(590.58 KB) Additional Information: full citation, abstract, references, index terms					
	THE PROPERTY OF THE PROPERTY O					

This paper presents a technique for natural, fingertip-based interaction with virtual objects in Augmented Reality (AR) environments. We use image processing software and finger- and hand-

based fiducial markers to track gestures from the user, stencil buffering to enable the user to see their fingers at all times, and fingertip-based haptic feedback devices to enable the user to feel virtual objects. Unlike previous AR interfaces, this approach allows users to interact with virtual content using ...

Keywords: Augmented Reality, gesture interaction, occlusion

11	Solemn: Solaris Emulation Mode for Bill Clarke April 2004 Proceedings of the 37th	or Sparc Sulima	
	<del>-</del>	Additional Information: full citation, abstract	
	<b>F</b> .o.	a new user-level simulationmode for Sparc Sulima, a SPARC V9	
	complete machinesimulator. Solem unmodified Solaris executable: 32c advantages over both complete ma	on extends Sparc Sulima allowing it tosimulate at user-level and or 64-bit, and statically or dynamically linked. This yieldssome achine simulatorsand traditional system call emulation. To do this, as space and files that the simulatedprogram requires, and	
12	• • • • • • • • • • • • • • • • • • • •	ems for ubiquitous computing: Usability of mobile devices and	
	intelligently adapting to a user's ne	<u>eeds</u>	
	Stephen Greene, Jason Finnegan September 2003 Proceedings of the 1s communication techno	t international symposium on Information and	
		Ologies Additional Information: full citation, abstract, references	
	<u> </u>		
	users to achieve specified goals wit mobile services i.e. services that ru surmise what interfaces for mobile	1998) as the extent to which a product can be used by specified th effectiveness, efficiency and satisfaction. Usability in relation to un on Mobile Phones and PDAs must look at the mobile user and services are appreciated and anticipated by the user. This paper es when developing Mobile services. It will look at the mobi	
13	G2ST: a novel method to transform	n GML to SVG	
	Zhimao Guo, Shuigeng Zhou, Zhengch		
	′	Additional Information: full citation, abstract, references, index terms.	
	information storing and exchanging XML standard, is appearing as an id Language Transformations (XSLT)	.) has been adopted as <i>de facto</i> standard for geo-referenced g, while Scalable Vector Graphics (SVG), also a W3C-recommended deal format for rendering maps. Usually, Extensible Stylesheet is used to transform GML documents toSVG documents. riety of GML documents, however, designing XSLT rules is not a	
	Keywords: GML, SVG, transforming	ng language	
14		ATION ENVIRONMENT FOR CONTROL OF MULTI-USER	
	Tatiana Tavares, Carlos Lima, Luiz Go	Anfranserai Dias, Meika Monteiro, Viviane Antunes, George Thó, nçalves, Guido Lemos, Pablo Alsina, Adelardo Medeiros a <b>annual symposium on Simulation</b>	
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	platforms developedfor control of m basically composed by robotsystem and a video camera, imaging system	osed in this work is amix between hardware and software nulti-user agents in a mixed realityenvironment. The hardware is that manipulate objects and move in a closed, realenvironment im. Theenvironment can be any place that provides or someoness for showing results or else to allow manipulation on it via a	

Sylvain Lefebvre, Fabrice Neyret

April 2003 Proceedings of the 2003 symposium on Interactive 3D graphics

Full text available: ppdf(21.44 MB) Additional Information: full citation, abstract, references

<sup>15</sup> Session 8: miscellaneous topics: Pattern based procedural textures

Numerous real-time applications such computer games or flight simulators require non-repetitive high-resolution texturing on large landscapes. We propose an algorithm which procedurally determines the texture value at any surface location by aperiodically combining provided patterns according to user-defined controls such as a probability distribution (possibly non stationary). Our algorithm can be implemented on programmable hardware by taking advantage of the texture

indirection ability of rec	
Keywords: graphics hardware, landscape, proceduralism, textures	
Modeling/simulation: Modeling virtual object behavior within virtual environment Gun A. Lee, Gerard Jounghyun Kim, Chan-Mo Park November 2002 Proceedings of the ACM symposium on Virtual reality software and technology	_
Full text available: pdf(1.15 MB)  Additional Information: full citation, abstract, references, citings, index terms	
Development of virtual reality systems requires iterations of specification, implementation and evaluation. Since correct evaluations of immersive VR systems require the tedious process of wearing many devices, there exist both temporal and spatial gaps between the implementation and evaluation stage, and this usually causes delay and inefficiency in the development process. In order to overcome this gap, there have been several approaches to constructing or modeling the physical aspects of the	
<b>Keywords</b> : 3D interaction, interactive behavior modeling, programming by demonstration, virtual environment, virtual object	
17 Data collections and MM: DVR-Pompei: a 3D information system for the house of the Vettii in	
openGL environment	
Maurizio Forte, Eva Pietroni, Claudio Rufa, Angela Bizzarro, Alessandro Tilia, Stefano Tilia  November 2001 Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage	
Full text available: pdf(11.24 MB) Additional Information: full citation, abstract, references, index terms	
DVR (Desktop Virtual Reality) Pompei project is aimed to the creation of a virtual reality desktop system able to connect and to visualize data and spatial models in the same environment, interface and three-dimensional context of interaction. The archaeological case study of the House of Vettii has been chosen because of the features of the monument, of the related data, of the urgent needs of restoration, preservation and documentation and of the activity "in situ" of the Istituto Centr	
<b>Keywords</b> : 3D information systems, archaeometry, desktop virtual reality, house of the vettii, pompei, restoration, spatial data	
18 Session 2D: group and organizational dynamics: A robust cooperation architecture for teams of UCAVs  François Legras July 2002 Proceedings of the first international joint conference on Autonomous agents and	
multiagent systems: part 1	
Full text available: pdf(115.86 KB)  Additional Information: full citation, abstract, references, index terms	
In this paper, we deal with cooperation in communication-limited and dynamic environments. More precisely, the focus is on cooperation with local communication for teams of non-selfish agents operating in dynamic and unpredictable environments. We propose a framework that allow the creation and evolution of groups (sub-teams) within a team. We support this framework by experimental and formal results.	
19 Object-oriented modeling: a roadmap	_
Consequence of the Consequence o	

Gregor Engels, Luuk Groenewegen

May 2000 Proceedings of the Conference on The Future of Software Engineering

Full text available: pdf(1.43 MB)

Additional Information: full citation, references, citings, index terms

**Keywords:** UML, development process, frameworks, object-oriented modeling, patterns, profile, views

<sup>20</sup> <u>Testbed evaluation of virtual environment interaction techniques</u>

Doug A. Bowman, Donald B. Johnson, Larry F. Hodges

December 1999 Proceedings of the ACM symposium on Virtual reality software and technology

Full text available: pdf(1.55 MB)

Additional Information: full citation, abstract, references, citings, index terms

As immersive virtual environment (VE) applications become more complex, it is clear that we need a firm understanding of the principles of VE interaction. In particular, designers need guidance in choosing three-dimensional interaction techniques. In this paper, we present a systematic approach, testbed evaluation, for the assessment of interaction techniques for VEs. Testbed evaluation uses formal frameworks and formal experiments with multiple independent and dependent variables in order ...

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Full text available: pdf(119)  In this paper, we described by the focus operating in dynar	ngs of the fi ent systems: 5.86 KB) deal with coope s is on coope nic and unpre ition of groups	rst international jo part 1 Additional Information: [viii peration in communic ration with local com dictable environmen s (sub-teams) within	citation, abstract, reference cation-limited a munication for ts. We propose	erences, index terms and dynamic enviro teams of non-selfie	s agents and nments. More sh agents allow the
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<sup>5</sup> <u>A snapshot differential refresh algorithm</u> Bruce Lindsay, Laura Haas, C. Mohan, Hamid Pirahesh, Paul Wilms ACM SIGMOD Record, Proceedings of the 1986 ACM SIGMOD international conference on Management of data, Volume 15 Issue 2

Additional Information: full citation, abstract, references, citings, index terms

This article presents an algorithm to refresh the contents of database snapshots. A database snapshot is a read-only table whose contents are extracted from other tables in the database. The snapshot contents can be periodically refreshed to reflect the current state of the database. Snapshots are useful in many applications as a cost effective substitute for replicated data in a distributed database system. When the snapshot contents are a simpl ...

6	Immediate atomic snapshots and Elizabeth Borowsky, Eli Gafni		
	computing	welfth annual ACM symposium on Principles of distributed	
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7	Atomic snapshots in O(n log n) o Hagit Attiya, Ophir Rachman Sentember 1993, Proceedings of the	perations welfth annual ACM symposium on Principles of distributed	
	computing	wenth annual ACM symposium on Principles of distributed	
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8	Atomic snapshots of shared men Yehuda Afek, Hagit Attiya, Danny Do	olev, Eli Gafni, Michael Merritt, Nir Shavit	
	September 1993 Journal of the ACM (		
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	partitioned into words written (up its entirety. This paper presents t	ormulation of atomic snapshot memory, a shared memory odated) by individual processes, or instantaneously read (scanned) in three wait-free implementations of atomic snapshot memory. The uses unbounded (integer) fields in these registers, and is particu	
	Keywords: atomic, consistent st	rate, fault-tolerance, snapshot	
9	Inferring constraints from multiple David Kurlander, Steven Feiner October 1993 ACM Transactions on (	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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	Keywords: constraints, empirica	l learning, graphical editing	
10		n <u>ory</u> tiya, Eli Gafni, Michael Merritt, Nir Shavit Ith annual ACM symposium on Principles of distributed	
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11	Martin Gogolla, Mark Richters, Jörn I September 2003 <b>Proceedings of the 2</b>	and OCL models through automatic snapshot generation  Bohling  OO3 annual research conference of the South African  r scientists and information technologists on Enablement	
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	This paper studies tool support fo	r the testing and certification of UML and OCL models as supported	

This paper studies tool support for the testing and certification of UML and OCL models as supported by the validation tool USE. We describe the features available in the UML/OCL tool USE and extend its features by introducing a language for defining properties of desired snapshots and by showing how such snapshots are generated. We explain the functionality offered by the USE tool. In particular, we demonstrate how the diverse windows, e.g., object diagram, class invariant, class extent, or OCL ...

12 Session 5B: A tight time lower bound for space-optimal implementations of multi-writer snapshots Panagiotà Fatourou, Faith Fich, Eric Ruppert June 2003 Proceedings of the thirty-fifth annual ACM symposium on Theory of computing Additional Information: full citation, abstract, references, citings, index terms Full text available: pdf(232.46 KB) A snapshot object consists of a collection of m > 1 components, each capable of storing a value, shared by n processes in an asynchronous shared-memory distributed system. It supports two operations: a process can UPDATE any individual component or atomically SCAN the entire collection to obtain the values of all the components. It is possible to implement a snapshot object using mregisters so that each operation takes O(mn) time. In a previous paper, we proved tha ... Keywords: lower bounds, shared-memory distributed computing, snapshot, space-optimal 13 Shared momory objects: Efficient synchronous snapshots Alex Brodsky, Faith Ellen Fich July 2004 Proceedings of the twenty-third annual ACM symposium on Principles of distributed computing Full text available: pdf(186.05 KB) Additional Information: full citation, abstract, references, index terms A snapshot is an important object in distributed computing whose implementation in asynchronous systems has been studied extensively. It consists of a collection of m > 1 components, each storing a value, and supports two atomic operations: an UPDATE of a specified component's value and a SCAN of all components to determine their values at some point in time. In this paper, we investigate implementations of a multiwriter snapshot object in a synchronous shared memory model. In this setti ... Keywords: multiprocessor algorithms, shared memory objects 14 Software development snapshots: A preliminary investigation Laura Marie Leventhal October 1987 ACM SIGCHI Bulletin, Volume 19 Issue 2 Additional Information: full citation, abstract, references, index terms Full text available: pdf(341.44 KB) A continuing challenge to investigators of human-computer interaction issues is the selection of an appropriate methodology. A particularly difficult aspect of methodology has been the choice of a proper test instrument. In the past, small programs have been favored by researchers because they were relatively easy to manage in a controlled experimental setting. Unfortunately the relationship between the cognitive demands of small programs and of real-world software systems remains unclear. Large ... 15 Inference bear: designing interactive interfaces through before and after snapshots Martin R. Frank, Piyawadee Noi Sukaviriya, James D. Foley August 1995 Proceedings of the conference on Designing interactive systems: processes, practices, methods, & techniques Full text available: pdf(1.08 MB) Additional Information: full citation, references, citings, index terms 16 BA session: shared memory objects: Brief announcement; implementing multi-word atomic snapshots on current hardware Chris Purcell, Tim Harris July 2004 Proceedings of the twenty-third annual ACM symposium on Principles of distributed computing Full text available: pdf(57,22 KB) Additional Information: full citation, references, index terms Keywords: atomic snapshots, lock-free, non-blocking <sup>17</sup> On the memory overhead of distributed snapshots Lior Shabtay, Adrian Segall August 1994 Proceedings of the thirteenth annual ACM symposium on Principles of distributed

Keywords: OCL constraint, UML model, certification, design, languages, snapshot, validation,

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18	Reconstruction of algorithms from memory snapshots of their execution						
	Frederick E. Petry, Alan W. Biermann October 1976 Proceedings of the annual conference						
	•	Additional Information: full citation, abstract, references, index terms					
	Full text available: pdf(435,62 KB)	Additional miormation. <u>IDII Citation, 20stract, references, moex terms</u>					
	algorithm. With such traces and a executed, the algorithm can be re- appear in the snapshots is perform	es a trace of memory snapshots taken during the execution of an description of the environment in which the algorithm was constructed. In the first phase, decomputation of the results which ned. Decomputation is the process which produces, for each result structions which could have been its cause. The construction phase					
19		g global states of distributed systems	_				
	K. Mani Chandy, Leslie Lamport February 1985 <b>ACM Transactions on C</b>	computer Systems (TOCS), Volume 3 Issue 1					
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	state of the system during a comp of the problem of detecting global solve an important class of probler	by which a process in a distributed system determines a global outation. Many problems in distributed systems can be cast in terms states. For instance, the global state detection algorithm helps to ms: stable property detection. A stable property is one that ecomes true it remains true thereafter. Examples of stable					
20	Haim Gaifman, Michael J. Maher, Ehu	snapshots of nondeterministic concurrent programs d Shapiro th annual ACM symposium on Principles of distributed	_				
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4	Shared r	momory objects: Effici	ent synchronous snapshots	
	Alex Brod July 2004		twenty-third annual ACM syn	mposium on Principles of distributed
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	system value, of all c	ns has been studied ext and supports two atom components to determin nentations of a multiwri	ensively. It consists of a collectio ic operations: an UPDATE of a sp e their values at some point in ti	ose implementation in asynchronous on of $m > 1$ components, each storing a secified component's value and a SCAN me.In this paper, we investigate mous shared memory model. In this

<sup>5</sup> Backup Strategy Malcolm Murphy February 1996 Linux Journal

Keywords: multiprocessor algorithms, shared memory objects

At the inter-domain level, the Internet topology can be represented by a graph with Autonomous Systems (ASes) as nodes and AS peerings as links. This AS-level topology graph has been widely used in a variety of research efforts. Conventionally this topology graph is derived from routing tables collected by Route Views or RIPE RIS. In this work, we assemble the most complete AS-level topology by extending the conventional method along two dimensions. First, in addition to using data from RouteVie ...

	Miguel Castro, Barbara Liskov November 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 4	
	Full text available: pdf(1.63 MB)  Additional Information: full citation, abstract, references, citings, index terms, review	
	Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement re	
	<b>Keywords</b> : Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer	
13	An on-the-fly mark and sweep garbage collector based on sliding views	
	Hezi Azatchi, Yossi Levanoni, Harel Paz, Erez Petrank October 2003 ACM SIGPLAN Notices, Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications, Volume 38 Issue 11	
	Full text available: pdf(244.12 KB)  Additional Information: full citation, abstract, references, citings, index terms	
	With concurrent and garbage collected languages like Java and C# becoming popular, the need for a suitable non-intrusive, efficient, and concurrent multiprocessor garbage collector has become acute. We propose a novel mark and sweep on-the-fly algorithm based on the sliding views mechanism of Levanoni and Petrank. We have implemented our collector on the Jikes Java Virtual Machine running on a Netfinity multiprocessor and compared it to the concurrent algorithm and to the stop-the-world collecto	
	<b>Keywords</b> : concurrent garbage collection, garbage collection, memory management, on-the-fly garbage collection, runtime systems	
14	Middleware for replication and transactions: Ganymed: scalable replication for transactional	
	web applications Christian Plattner, Gustavo Alonso October 2004 Proceedings of the Fah ACM / TETP / USE NEW international conference on Middlewson	
	October 2004 Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware  Full text available: pdf(295.27 KB)  Additional Information: full citation, abstract, references	
	Data grids, large scale web applications generating dynamic content and database service providing pose significant scalability challenges to database engines. Replication is the most common solution but it involves difficult trade-offs. The most difficult one is the choice between scalability and consistency. Commercial systems give up consistency. Research solutions typically either offer a compromise (limited scalability in exchange for consistency) or impose limitations on the data schema an	
15	Petal: distributed virtual disks	
	Edward K. Lee, Chandramohan A. Thekkath September 1996 Proceedings of the seventh international conference on Architectural support for	
	programming languages and operating systems, Volume 31, 30 Issue 9, 5  Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms	
	The ideal storage system is globally accessible, always available, provides unlimited performance and capacity for a large number of clients, and requires no management. This paper describes the design, implementation, and performance of Petal, a system that attempts to approximate this ideal in practice through a novel combination of features. Petal consists of a collection of network-connected servers that cooperatively manage a pool of physical disks. To a Petal client, this collection appear	
	Active middleware services in a decision support system for managing highly available distributed resources	
	Sameh A. Fakhouri, William F. Jerome, Vijay K. Naik, Ajay Raina, Pradeep Varma  April 2000 IFIP/ACM International Conference on Distributed systems platforms	

Full text available: pdf(306.87 KB) We describe a decision support system called Mounties that is designed for managing applications and resources using rule-based constraints in scalable mission-critical clustering environments. Mounties consists of four active service components: (1) a repository of resource proxy objects for modeling and manipulating the cluster configuration; (2) an event notification mechanism for monitoring and controlling interdependent and distributed resources; (3) a rule evaluation and decision proces ...

Additional Information: full citation, abstract, references

<sup>17</sup> Comparison of access methods for time-evolving data Betty Salzberg, Vassilis J. Tsotras

ACM Computing Surveys (CSUR), Volume 31 Issue 2

Full text available: pdf(529.53 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper compares different indexing techniques proposed for supporting efficient access to temporal data. The comparison is based on a collection of important performance criteria, including the space consumed, update processing, and query time for representative queries. The comparison is based on worst-case analysis, hence no assumptions on data distribution or query frequencies are made. When a number of methods have the same asymptotic worst-case behavior, features in the methods tha ...

Keywords: I/O performance, access methods, structures, temporal databases

#### 18 Reliability mechanisms for ADAMS

S. H. Son, J. L. Pfaltz

January 1989 Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2

Full text available: pdf(984.13 KB)

Additional Information: full citation, abstract, references, citings, index terms

The goal of checkpointing in database management systems is to save database states on a separate secure device so that the database can be recovered when errors and failures occur. This paper presents a non-interfering checkpointing mechanism being developed for ADAMS. Instead of waiting for a consistent state to occur, our checkpointing approach constructs a state that would result by completing the transactions that are in progress when the global checkpoint begins. The checkpointing alg ...

## <sup>19</sup> Fault-tolerant computing based on Mach

Özalp Babaoğlu

January 1990 ACM SIGOPS Operating Systems Review, Volume 24 Issue 1

Full text available: pdf(963,85 KB)

Additional Information: full citation, abstract, citings, index terms

We consider the problem of providing automatic and transparent fault tolerance to arbitrary user computations based on the Mach operating system. Among the several alternatives for structuring such a system, we pursue the "task-pair backup" paradigm in detail and outline how it might be supported by Mach. Some of the new system calls and protocols that need to be incorporated into the Mach kernel and server tasks are sketched.

## 20 ARIES: a transaction recovery method supporting fine-granularity locking and partial rollbacks using write-ahead logging

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz

ACM Transactions on Database Systems (TODS), Volume 17 Issue 1

Full text available: pdf(5.23 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transactionbased operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

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